

Remarks

Applicant Amended Claim 1, 2, 3, 7 and 9, to address the Examiner's comments. Applicant believes any objection is overcome.

33USC102/103

Independent Claims 1, 9 were amended to clarify the thickness range and material of the third conductor.

To the extent that any art rejection continues to be applied against Claims 1, 9, both as amended, and 12 – 15, reconsideration is respectfully requested. Applicant believes neither Zhao, Win, Johnson nor Ito, whether applied singly or in combination, discloses, teaches or suggests a third electrical conductor which has a thickness of two and one-half microns to less than five microns, and consists essentially of one metal having a substantially uniform chemical composition.

Contrary to Applicant's invention, Zhao seems to teach a plug 48 having a non-uniform chemical composition. See vol. 3, lines 23-27,

Entry and allowance are solicited.

Respectfully submitted,

 12-23-03
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What is claimed is:

In The Claims

**Kindly amend independent claims 1,9, and dependent claims 2,3, 7 all
without prejudice so that claims 1-15 to appear as follows:**

1. (Currently Amended) A passive electrical device, comprising:
a first electrical conductor;
a second electrical conductor disposed over said first electrical
conductor;
a third electrical conductor connecting said first electrical
conductor to said second electrical conductor, wherein
said first, second and third electrical conductors are disposed on a
semiconductor substrate and wherein the sheet resistivity of said first
electrical conductor is approximately equal to the sheet resistivity of said
second electrical conductor, and wherein said third electrical conductor
has a thickness in a range of approximately two and one-half to less than
five microns and consists essentially of one substantially uniform chemical
composition.

2. (Currently Amended) The device as claimed in claim 1, wherein each of

said first, second and third electrical conductors has a respective thickness, and the thickness of said first electrical conductor is approximately equal to the thickness of the second electrical conductor.

1 3. (Currently Amended) The device as claimed in claim 1, wherein each of said
first, second and third electrical conductors has a respective thickness, the
thickness of said first electrical conductor being approximately equal to the
thickness of the second electrical conductor and being approximately one-
half the thickness of said third conductor.

1 4. (Original) The device as claimed in claim 1, wherein said first, second and
2 third electrical conductors consist essentially of copper.

1 5. (Original) The device as claimed in claim 1, wherein said first and third
2 electrical conductors consist essentially of copper, and said second
3 electrical conductor consists essentially of aluminum.

1 6. (Original) The device as claimed in claim 1, wherein each of said first and
2 said second electrical conductors has a respective thickness in a range of
3 approximately two to approximately 32 microns.

1 7. (Currently Amended) The device as claimed in claim 6, wherein said third

2 electrical conductor has a thickness in an additional [a] range of
3 approximately five to approximately 10 microns.

1 8. (Original) The device as claimed in claim 5, wherein said second electrical
2 conductor has a substantially uniform thickness in a range of approximately
3 four microns to approximately six microns.

1 9. (Currently Amended) An inductor, comprising:
2 a semiconductor substrate; first, second and third electrical conductors
3 provided on said substrate, wherein said first and second electrical conductors
4 each has a thickness which is approximately equal, and wherein said
5 semiconductor substrate comprises silicon, and wherein said third electrical
6 conductor has a thickness in a range of approximately two and one-half to
7 less than five microns and consists essentially of one metal having a
8 substantially uniform chemical composition.

1 10. (Original) The inductor as claimed in claim 9, wherein said substrate comprises
2 silicon and germanium.

1 11. (Original) The inductor as claimed in claim 9, wherein said substrate is a
2 silicon on insulator substrate.

1 12.(Original) The inductor as claimed in claim 9, wherein said substrate is a silicon-
2 on-sapphire substrate.

1 13.(Original) The inductor as claimed in claim 9, wherein said second electrical
2 conductor is disposed over said first electrical conductor.

1 14.(Original) The inductor as claimed in claim 9, wherein said first and said second
2 electrical conductors are spiral shaped.

1 15.(Original) The inductor as claimed in claim 9, wherein each of said first and said
2 second electrical conductors has a sheet resistivity, the sheet resistivity
3 of said first electrical conductor being approximately equal to the sheet
4 resistivity of said second electrical conductor.